



Seminar im Master (MSI)

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Dr. Jens Knodel**



Agenda

- Motto des Seminars
- Themen
- Unsere Erwartungen
- Organisatorisches
- Literatur



Seminar Motto: Software Ecosystems

Master-Seminar

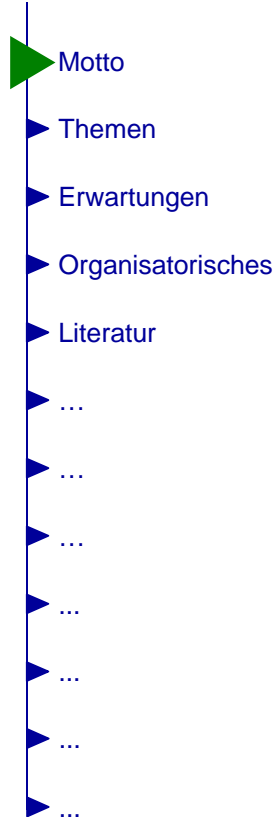
- ▶ Motto
- ▶ Themen
- ▶ Erwartungen
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Software Ecosystems: Definitionen

Master-Seminar



- Messerschmitt et al.
 - Traditionally, a software ecosystem refers to a collection of software products that have some given degree of symbiotic relationships.
- Jansen et al.
 - We define a software ecosystem as a set of businesses functioning as a unit and interacting with a shared market for software and services, together with the relationships among them. These relationships are frequently underpinned by a common technological platform or market and operate through the exchange of information, resources and artifacts.
- Bosch et al.
 - A software ecosystem consists of the set of software solutions that enable, support and automate the activities and transactions by the actors in the associated social or business ecosystem and the organizations that provide these solutions.
 - A software ecosystem consists of a software platform, a set of internal and external developers and a community of domain experts in service to a community of users that compose relevant solution elements to satisfy their needs.



Software Ecosystems: Definitionen

Master-Seminar



Motto



Themen



Erwartungen



Organisatorisches



Literatur



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- Lungu

- A software ecosystem is a collection of software projects which are developed and evolve together in the same environment.

- Manikas et al

- A software ecosystem consists of a group of actors, one or more business models that serve these actors in a possible wider sense than direct revenues, one or more software platforms that the business models are built upon and the relationships of the actors and business models.

- Knodel et al

- Software Ecosystems

- Innovations through integrated software systems
- Driven by multiple organizations at their own pace to interact with shared markets
- Exchange of data, functions, or services mutually influencing each other

- Smart Ecosystems

- integrate non-trivial information systems supporting business goals
- integrate non-trivial embedded systems supporting technical goals
- function as one unit to achieve a common, superior goal and share context-dependent information

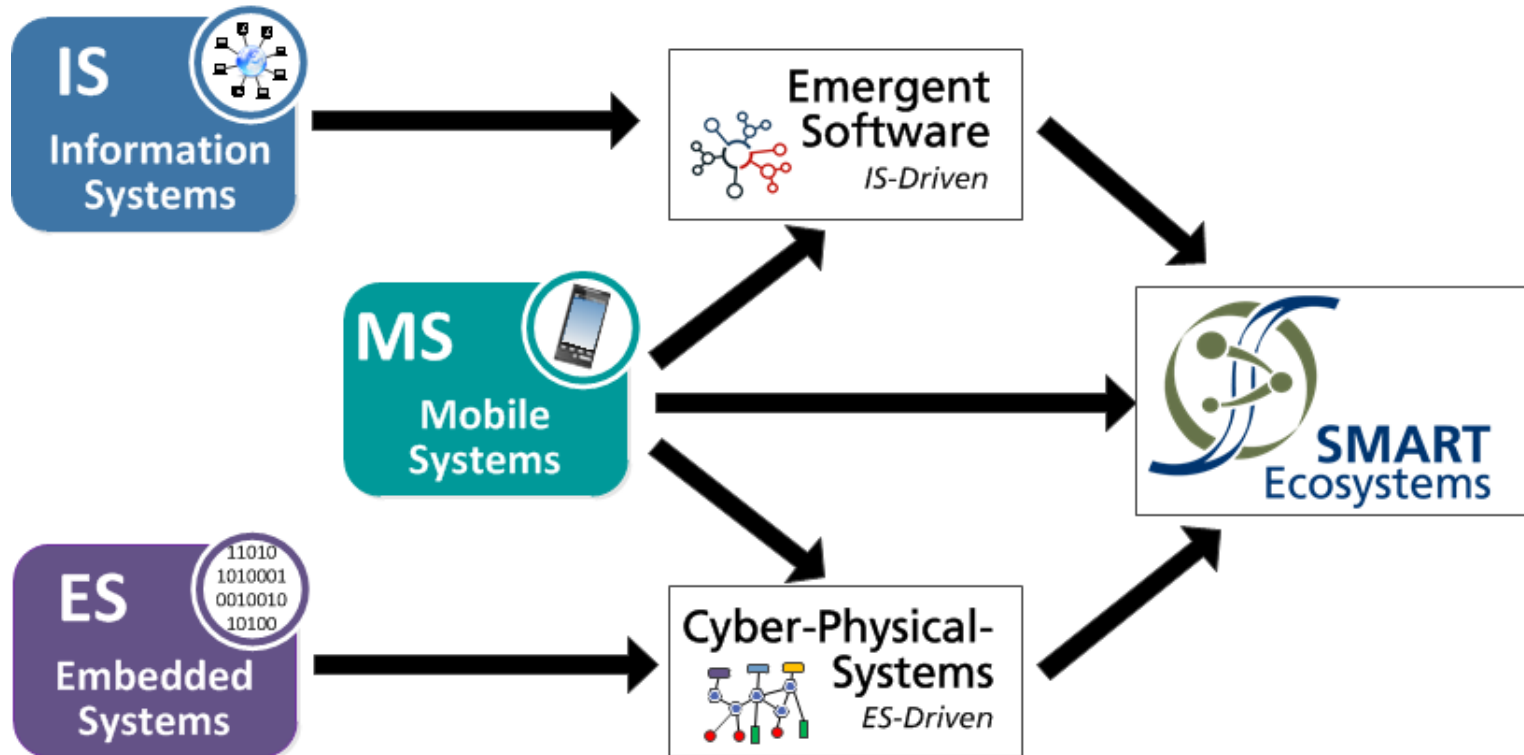


Software Systems 2020

(Sicht: Fraunhofer IESE)

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Liste der Themen: Smart Software Ecosystems

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1. Simulation
2. Visualisierung
3. Statische Rekonstruktion/Analyse
4. Laufzeit-Diagnose/Dynamische Analyse
5. Evolution: (Miss-)Erfolgsfaktoren
6. Ein Beispiel: Planet Eclipse
7. The Open Architecture Group Architecture Framework (TOGAF)
8. Abgrenzung von Betrachtungsweisen: Cyber-Physical Systems, Internet der Dinge, Ultra-Large-Scale Systems, Emergente Software, Smart Ecosystems
9. Ein Beispiel: Sichere Intelligente Mobilität – Testfeld Deutschland (simTD)
10. Ein Beispiel: Android-Stores
11. Analyse der IWSECO-Workshops: Trends und Topics
12. Testbeds für Ecosystem-Komponenten/-Systeme/-Services
13. Offene Architekturen
14. Ein Anwendungsbereich: Smart Cities
15. Die Rolle des Cloud Computing für Ecosystems
16. Social and Business Aspects in Ecosystems
17. Ecosystems: eine Anwendung für Big Data?



Unsere Erwartungen

Master-Seminar

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- Teamarbeit in 2er-Gruppen
- Mehr als die reine Text-Zusammenfassung:
Mitdenken, Interpretation, (kritische) Wertung
- Eigene Beispiele oder Beispiele aus der Literatur
→ Mehr als *eine* Literaturstelle verarbeiten!
- Solide Vorträge, gute Mediengestaltung
 - Präsentation: 20 min/Person (harte Deadline!)
 - Fragen/Diskussion/Interaktion: 10 min (zu Inhalt, Präsentation)
 - Aktiv (und interaktiv) gestalten
 - Bitte rechtzeitig Wünsche/Anforderungen bzgl. Medien äußern!
- Annotierte PPT-Folien als Ausarbeitung



Termine

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- Themenpräsentation: 14.3.13 (heute)
- Themenauswahl: 21.3.13
- Zwischenbesprechung(en) für
 - Literatur
 - Inhaltliche Fragen
 - Diskussion, Fluss abstimmen etc.
- je nach Bedarf
- Vorläufige Version des Materials (ppt oder pdf): 5.5.13 23:59
Feedback bis 18.5.13
- Fertige überarbeitete Version (ppt oder pdf): 26.5.13 23:59
- Präsentation
 - 27.5.13
 - 3.6.13
 - 10.6.13 (je nach Anzahl der Teilnehmer)



Was Sie falsch machen können

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- Thema verfehlen
- Abschreiben
- Termine verpassen
- Unentschuldigt fehlen
- Schlechte Qualität abliefern
 - Inhalt
 - Umfang der Annotationen
 - Stil, Rechtschreibung
- Schlecht präsentieren
- Fragen nicht beantworten (können)
- Vorgaben ignorieren (Vortragszeiten, Abgabeformate etc.)



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- **Startpunkt:**
Software Ecosystems - A Systematic Literature Review,
Konstantinos Manikas and Klaus Marius Hansen
- Suchen Sie selbst themenspezifisch weitere Quellen, wählen Sie aus und informieren Sie uns über Ihre Auswahl (mindestens drei zusätzliche Quellen pro Thema)!

Haben Sie Fragen?